

Subject	CHEMISTRY	Grade	9
Student		Date	

ASSESSMENT TASK - SMART PHONE BONDING INVESTIGATION

Smart phones are made from many different substances some of which are rare and difficult to obtain.

You need to **investigate/explain** the following:

- Investigate a metallic, ionic and covalent substance used in smart phones. Explain how the properties of that substance enable it to be used for its particular function within the phone.
- Describe the consequences of each substance for the environment due to obtaining, using and disposing of that substance.
- Explain how to improve the lifecycle of each substance (cradle to grave) in order to be more environmentally friendly.

The research and write up is in **pairs**.

This is to be presented as written report on A4 paper.

You will be graded on **Criteria D**.

CRITERIA AND ASSESSMENT RUBRICS

Criterion D: Reflecting on the impacts of science

level	Level descriptor	Student	Teacher
0	The student does not reach a standard described by any of the descriptors below.		
1-2	The student is able to, with limited success : i. state the ways in which science is used to address a specific problem or issue ii. state the implications of using science to solve a specific problem or issue, interacting with a factor iii. apply scientific language to communicate understanding iv. document sources.		
3-4	The student is able to: i. state the ways in which science is used to address a specific problem or issue ii. state the implications of using science to solve a specific problem or issue, interacting with a factor iii. sometimes apply scientific language to communicate understanding iv. sometimes document sources correctly.		
5-6	The student is able to: i. outline the ways in which science is used to address a specific problem or issue ii. outline the implications of using science to solve a specific problem or issue, interacting with a factor iii. usually apply scientific language to communicate understanding clearly and precisely iv. usually document sources correctly.		
7-8	The student is able to: i. summarize the ways in which science is applied and used to address a specific problem or issue. ii. describe and summarize the implications of using science and its application to solve a specific problem or issue, interacting with a factor. iii. consistently apply scientific language to communicate understanding clearly and precisely . iv. document sources completely .		

Student Reflection

Teacher Feedback